

Claims

1. Insert for being added to a gas-pressurized liquid in a liquid container, wherein the insert has a said body that can be activated by pressure and has at least one cavity in conjunction with a positioning device, characterized in that
 - (a) the said body (4) that can be activated by pressure has at least one said opening (10) with a reduced diameter, which connects this cavity with the environment of the insert and is located in a location that is above the level of liquid when the insert is floating on the liquid, and
 - (b) the said positioning device comprises a said floating body (1, 2; 1, 2, 6) with
 - (i) a said small opening (3) that is submerged in the liquid when the insert is placed on a liquid,
 - (ii) a said ventilation opening (5), which directly communicates with the said external environment (14) of the insert, and
 - (iii) a said minimum volume (11), which ensures that the insert will sink into the liquid when it is filled with liquid.
2. Insert in accordance with claim 2 [sic - Tr.Ed.], characterized in that the said floating body is arranged outside the said body that can be activated by pressure.
3. Insert in accordance with claim 1 or 2, characterized in that the said floating body has the shape of a said, upwardly open (1, 2) or of a said, upwardly at least partially covered boat (1, 2, 6), and the said body (4) that can be activated by pressure is arranged within the said boat.
4. Insert in accordance with claim 3, characterized in that the said boat comprises at least one said bottom (1) and a said circumferential side wall (2) and the said body (4) that can be activated by pressure is arranged on the bottom of the said boat.
5. Insert in accordance with one of the claims 1 through 3, characterized in that the bottom of the body that can be activated by pressure and the bottom of the floating body form an integral unit.
6. Insert in accordance with one of the above claims, characterized in that the said body that can be activated by pressure has only one cavity, and this [cavity] has only one said opening (10) with a reduced diameter in its upper area.
7. Insert in accordance with one of the claims 1 through 5, characterized in that the said body that can be activated by pressure has a said first cavity (9) with a said opening with a reduced diameter arranged in its upper area and with a said second cavity (8), which is intended to accommodate a solid or liquid substance and is separated from the said first cavity by a wall that can be opened by relatively weak forces in a gas- and liquid-tight manner.
8. Insert in accordance with claim 7, characterized in that the partition between the two said cavities is a circumferential wall, which completely surrounds the said second cavity on

the side.

9. Insert in accordance with claim 8, characterized in that the said second cavity (8) has the shape of a cylinder or another shape that is rotationally symmetrical in relation to a said axis (x), and the said first cavity (9) has the shape of a cylindrical sleeve or a shape derived therefrom.
10. Insert in accordance with one of the above claims, characterized in that the body that can be activated by pressure is arranged centrically in the said floating body.
11. Insert in accordance with claim 10, characterized in that both the said body that can be activated by pressure and the said floating body are designed as rotationally symmetrical bodies in relation to a said axis (x).
12. Insert in accordance with one of the above claims, characterized in that the said body that can be activated by pressure additionally has a weight (7).
13. Insert in accordance with claim 12, characterized in that the weight is an integral part of the said body that can be activated by pressure.
14. Insert in accordance with one of the above claims, characterized in that it is composed exclusively of a said bottom part (13) and a said cover part (12) as well as, if needed, a said weight (7).
15. Insert in accordance with claim 14, characterized in that the said bottom part and the said cover part are connected with one another via snap connections, frictionally engaged connections or weak bonded connections.
16. Insert in accordance with one of the claims 14 or 15, characterized in that the said two parts (12, 13) are connected with one another via their side walls.
17. Insert in accordance with claim 14 or 15, characterized in that either the said cover part or the said bottom part has all the said side walls of the insert and these snappingly engage the bottom or the cover of the other part or extend around structures arranged there during connection.
18. Insert in accordance with one of the above claims, characterized in that the body that can be activated by pressure and the floating body are made of plastic and/or the weight is made of a material with a specific gravity of > 1 , for example, a metal or ceramic.
19. Use of an insert in accordance with one of the above claims to improve the formation of gas bubbles in a liquid, which is sealed in a container under gas pressure, during the opening of the said container, characterized in that the insert is introduced into the container before or after the open container is filled with the liquid, and the liquid container is sealed, such that an overpressure develops compared to the ambient pressure within the liquid container after the sealing.

20. Use in accordance with claim 19, wherein pressure, which causes the said overpressure to develop within the liquid container after sealing, is admitted into the gas space above the liquid in the liquid container.
- 5 21. Use in accordance with claim 18 or claim 19, characterized in that the liquid is a foaming beverage and especially beer.
- 10 22. Use of an insert in accordance with claim 7 or a claim that depends on that claim for mixing a substance stored separately in a container with a liquid present in the container during the opening of the said container, characterized in that the said cavity (8) of an insert according to claim 7 or a claim that depends on that claim, which said cavity is intended for this purpose, is filled with the solid or liquid substance, the open container is filled with liquid, the insert is introduced into the container before or after the liquid is filled into the container, and the liquid container is sealed, such that an overpressure develops compared to the ambient pressure after the liquid container is sealed.
- 15 23. Use in accordance with claim 22, wherein pressure, which causes the said overpressure to develop within the liquid container after sealing, is admitted into the gas space above the liquid in the liquid container.
- 20 24. Use in accordance with claim 22 or 23, characterized in that the liquid is beer and the substance stored separately is an aroma compound.
- 25 25. Use in accordance with claim 22 or 23, characterized in that the liquid is an alcohol-free, carbonated beverage or a non-carbonated beverage, which was filled with the addition of liquid nitrogen, and the substance stored separately is a minor nutrient and/or an aroma compound.

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